PATENT COOPERATION TREATY **PCT**

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FP20062	FOR FURTHER ACTION	See Form PCT/IPEA/416						
International application No. PCT/AU2004/000935	International filing date (day/month/year) 9 July 2004	Priority date (day/month/year) 11 July 2003						
International Patent Classification (IPC) or national classification and IPC								
International Patent Classification (IPC) or national classification and IPC Int. Cl. 7 B02C 4/28								
-Applicant								
TECHNOLOGICAL RESOURCES PTY LIMITED et al								
		·						
This report is the international prelim Authority under Article 35 and transr	inary examination report, established by this nitted to the applicant according to Article 3	International Preliminary Examining 6.						
2. This REPORT consists of a total of	2. This REPORT consists of a total of 3 sheets, including this cover sheet.							
3. This report is also accompanied by A	NNEXES, comprising:							
a. X (sent to the applicant and to	the International Bureau) a total of 2 sheet	ets, as follows:						
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
a sequence listing and/or tal	ureau only) a total of (indicate type and numbels related thereto, in computer readable form g (see Section 802 of the Administrative Ins	n only, as indicated in the Supplemental Box						
4. This report contains indications rela								
X Box No. I Basis of the r	eport							
Box No. II Priority	·	·						
Box No. III Non-establish	hment of opinion with regard to novelty, inve	entive step and industrial applicability						
Box No. IV Lack of unity	y of invention							
Box No. V Reasoned sta	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain docu	ments cited							
Box No. VII Certain defe	cts in the international application	-						
Box No. VIII Certain obse	rvations on the international application							
Date of submission of the demand	Date of comple	tion of the report						
9 February 2005	14 October 20							
Name and mailing address of the IPEA/AU	J Authorized Office	cer						
AUSTRALIAN PATENT OFFICE	CTD AT IA							
PO BOX 200, WODEN ACT 2606, AUS E-mail address: pct@ipaustralia.gov.au								
Facsimile No. (02) 6285 3929 Telephone No. (02) 6283 2		. (02) 0283 2140						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/000935

KO	No. I	Basis of the report	
•	With r	regard to the language, this report is based on the international application in the language in which it was filed, unless wise indicated under this item.	
	T v	This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:	
	1	international search (under Rules 12.3 and 23.1 (b))	
	ļ	publication of the international application (under Rule 12.4).	<u></u>
		international preliminary examination (under Rules 55.2 and/or 55.3)	5
2.	furnis		
•		the international application as originally filed/furnished	
		the description:	
	ريت	pages 1-9 as originally filed/furnished	
		pages* received by this Authority on with the letter of	
	·.	pages* received by this Authority on with the letter of	
	X	the claims: pages 10-12 as originally filed/furnished	
		pages 10-12 as originally filed/furnished pages* as amended (together with any statement) under Article 19	
		pages* 13-13A received by this Authority on 11 October 2005 with the letter of 11 October 2005	00
		pages* received by this Authority on with the letter of	
	X	the drawings:	i
		pages 1/1 as originally filed/furnished	l
		pages* received by this Authority on with the letter of pages* received by this Authority on with the letter of	
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.	ŀ
3	. 🗀	The amendments have resulted in the cancellation of:	
		the description, pages	
		the claims, Nos.	
	•	the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to the sequence listing (specify):	
4	4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).	
		the description, pages	
	•	the claims, Nos.	
		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to the sequence listing (specify):	
	. į	If item 4 applies, some or all of those sheets may be marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/000935

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; Box No. V citations and explanations supporting such statement

1.	Statement			
	Novelty (N)	Claims	13, 16-20	YES
		Claims	1-12, 14-15	NO
	Inventive step (IS)	Claims	13, 16-20	YES
		Claims	1-12, 14-15	NO
	Industrial applicability (IA)	Claims	1-20	YES
	····	Claims		NO

2. Citations and explanations (Rule 70.7)

The claims are not novel and lack an inventive step regarding the following citation:

DE 2910249 A (UKRAINSKIJ NAUTSCHNO-ISSLEDOVATELSKIJ INSTITUT METALLOV) 25 September 1980

Claims 1-12, 14-15

This document discloses a coating system for relining a roller whilst the roller is in use, wherein a metal is deposited onto worn metal portions via a spark producing electrode means.

monitoring the surface of the roll or rolls and determining the extent of wear on the surface of the roll or rolls and identifying worn sections of the roll or rolls and depositing the hard facing material onto worn roll sections.

A roll crusher assembly for use in the mining 19. industry that includes:

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- (a) one or more than one roll for crushing a feed material, the roll or rolls having an outer surface that is formed from a wear resistant material;
- a means for depositing a hard facing (b) material onto the surface of the roll or rolls as the roll or rolls rotate during a crushing operation; and
- (c) a means for monitoring the surface of the roll or rolls wherein the roll surface monitoring means including a laser optical continuous monitoring means that includes a laser system mounted on a frame arranged to minimise vibrations.
- A roll crusher assembly for use in the mining industry that includes:
- one or more than one roll for crushing a (a) 30 feed material, the roll or rolls having an outer surface that is formed from a wear resistant material;
- a means for depositing a hard facing (b) 35 material onto the surface of the roll or rolls as the roll or rolls rotate during a

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crushing operation; and

(c) a means for heat treating the deposited hard facing material on the rotating roll or rolls downstream of the hard facing deposition means in the direction of rotation of the roll or rolls.

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